

NAME Andrew P. Norton

ADDRESS C212, Plant Science, Colorado State University

PHONE (970) 491-7421

EDUCATION

1985 B.A. Biology, University of California, Santa Cruz
1995 Ph.D. Entomology, University of California, Berkeley

ACADEMIC POSITIONS

Years 2014 – present Professor, BSPM Colorado State University
Years (2008 - 2014) Associate Professor, BSPM, Colorado State University.
Years (2002-2008) Assistant Professor, BSPM, Colorado State University,
Regular Appointment.
Years (2000-2002) Research Associate / Assistant Professor, Special Appointment,
non-tenure track, BSPM, Colorado State University.
Years (1995-2000) Post-Doctoral Researcher, Entomology, Cornell University.
Years (1988-1995) Graduate Research Associate, Department of Entomology,
University of California, Berkeley.

CURRENT JOB DESCRIPTION

Pest ecology and management, with an emphasis on plant insect interactions.

30 % Teaching 55 % Research/Creative Activity 15 % Service/Outreach 0 % Admin

HONORS AND AWARDS

2017 Nomination for the Board of Governor’s Excellence in Undergraduate Instruction

2017 Nomination for the Association of Public and Land-grant Universities and the American Association of State Colleges and Universities Food and Agricultural Sciences Excellence in College and University Teaching.

2017 Nomination for the USDA-NIFA National Awards Program for Excellence in College & University Teaching in the Food & Agricultural Sciences

2012. Entomological Society of America Service Award. For “Exceptional service as the poster Co-Chair on the Program Committee 2012 ESA National Meeting”.

2011. College of Agricultural Sciences Charles N. Shepardson Meritorious Teaching Award.

2011. North American Colleges and Teachers of Agriculture Teaching Award of Merit.

2011. Entomological Society of America Service Award for “Exceptional service as the co-chair of the

Annual Meeting Program Committee”

2010. Western Association of Agricultural Experiment Station Directors Award for Excellence in Research – Presented to members of the Technical Committee for W2185 Biological Control in Pest Management Systems of Plants.

2010. Entomological Society of America Service Award. For “Exceptional service as the Student Competition Co-Chair on the Program Committee 2010 ESA National Meeting”.

1995. NSF Postdoctoral Fellowship in Biosciences Related to the Environment (\$80,000).

1995. USDA Postdoctoral Fellowship, Entomology and Nematology Program. (\$80,000, declined in lieu of NSF Fellowship).

1993. Achievement Rewards for College Scientists Fellowship. Awarded for outstanding performance in course work, progress in research, and service. (\$5,000).

PUBLISHED WORKS

Refereed Journal Articles

h-index: 18 (Google Scholar)

h-index 14 (ISI)

†Graduate student author.

*Undergraduate student author.

Endriss[†], S & Alba, C, **Norton, A** & Pyšek, P, Hufbauer, R. (2017). Breakdown of a geographic cline explains high performance of introduced populations of a weedy invader. *Journal of Ecology*. 10.1111/1365-2745.12845.

Gilman, N. V., Sagàs, J., Camper, M., **Norton, A. P.** (2017). A faculty-librarian collaboration success story: Implementing a teach-the-teacher library and information literacy instruction model in a first-year agricultural science course. *Library Trends*, **65(3)** 353-389

Tuttle, G. M. [†], Katz, G. L., Friedman, J. M., **Norton, A. P.** (2016). Ecological context conditions the impact of Russian olive in a heterogeneous riparian ecosystem. *Invasive Plant Science and Management*. **9:272-289** (Number of times cited: 1)

Bernklau, E., Hibbard, B., **Norton, A.**, Bjostad, L. (2016). Methyl anthranilate as a repellent for western corn rootworm larvae (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*. 109(4):1683-1690. (Number of times cited: 3)

Simmons, M.P. and **Norton, A.P.** (2014). Divergent maximum-likelihood-branch-support values for polytomies. *Molecular Phylogenetics and Evolution* **73:87-96** (Number of times cited: 27)

Cariveau, D. [†] and Norton, A.P. 2014. Direct effects of a biocontrol agent are greater than indirect effects through flower visitors for the alien plant Dalmatian toadflax (*Linaria dalmatica*: Scrophulariaceae). *Biological Invasions* **16(9): 1951-1960** (Number of times cited: 1)

Williams, W.I. [†] Freidman, J.M. Gaskin, J.F. and **Norton, A.P.** 2014. Hybridization of an invasive shrub affects tolerance and resistance to defoliation by a biological control agent. *Evolutionary Applications*

7(3) 381-393 (Number of times cited: 21)

Wilbur, H., † Alba, C., **Norton, A.P.** and Hufbauer, R. 2013. The effect of insect herbivory on the growth and fitness of introduced *Verbascum thapsus* L. **NeoBiota** 19: 21-44. (Number of times cited: 4)

Bright, D.E., Kondratieff B.C., and **Norton A.P.** 2013. First record of the “splendid tamarisk weevil”, *Coniatus splendidulus* F. (Coleoptera: Curculionidae: Hyperinae), in Colorado, USA. *The Coleopterists Bulletin* 67(3): 302-303. (Number of times cited: 7)

Simmons, M.P., and **Norton, A.P.** 2013. Quantification and relative severity of inflated branch-support values generated by alternative methods: an empirical example **Molecular Phylogenetics and Evolution** 67(1) 277-296. (Number of times cited: 18)

Williams W.I. † and **Norton, A.P.** 2012. Native stem boring beetle (Coleoptera: Bostrichidae) highly prefers invasive *Tamarix* over native tree. **Southwestern Naturalist** 57(1): 108-111.

Blumenthal, D. **Norton, A.P.**, Cox, S.E., Hardy, E.M., Liston, G.E., Kennaway, L., Booth, D.T., Derner, J.D. 2012. *Linaria dalmatica* invades south-facing slopes and less grazed areas in grazing tolerant mixed-grass prairie. **Biological Invasions** 14(2) 395-404

Non-Refereed Journal Articles/Chapters/Proceedings/Transactions (last 5 years)

2014. Tuttle, G[†], Katz, G and Norton, A. Ecosystem impacts of Russian olive are strongly mediated by ecological context. 3rd Northern Rockies Invasive Plant Council Conference: Russian olive and flowering rush symposium. (Invited presentation)

2014. Katz, G, Norton, A, Hardin, J and Tuttle, G[†]. 2014. Russian olive alters riparian ecosystems on the South Fork of the Republican River. *Weed Watch* 30(1):17-19.

2013. Williams W.I., **Norton A.P.**, Friedman J., Gaskin J and Li, B. Differences in growth and herbivore resistance in hybrid populations of the invasive tree tamarisk (*Tamarix* sp.) in the western United States. In Wu, Y, Johnson, R., Sing, S., Raghu S., Wheeler, G., Pratt P., Warner, K., Center T., Goolsby J., and Reardon R., (Eds.) *Proceedings of the XIII International Symposium on the Biological Control of Weeds*. USDA-USFS-FHTET- publications-2012-07.

2013. **Norton, A.P.**, Thuis, A., Hardin, J. and Williams, W.I. Estimating target and non-target effects of *Diorhabda carinulata*, a biological control agent of *Tamarix* in North America. In Wu, Y, Johnson, R., Sing, S., Raghu S., Wheeler, G., Pratt P., Warner, K., Center T., Goolsby J., and Reardon R., (Eds.) *Proceedings of the XIII International Symposium on the Biological Control of Weeds*. USDA-USFS-FHTET- publications-2012-07.

Research Report

Norton, A. P., Katz, G., Eldeiry, A. A., Holtzer, T. O., Waskom, R. M. 2016. *SB14-195 Report to the Colorado Legislature South Platte Phreatophyte Study* (Special Report 30 ed., pp. 109 pages). Fort Collins, CO: Colorado Water Institute.

CONTRACTS & GRANTS

Contracts and Grants as PI, Last 5 years:

2016 – 2019 **Norton, A. P.** (PI), Cooperative Agreement, "Developing Mass Rearing Strategies for *Rhinusa Linariae* and *Mecinus Janthinus*", USDA-USFS-Forest Research, Federal, \$75,000, Active.

2016 – 2017 **Norton, A. P.** (PI), Contract, "CAPS: Assessment, Collection and Redistribution of Biological Control Insects for the Control of Invasive Leafy Spurge (*Euphorbia esula*) and Toadflax", Colorado Department of Agriculture, State of Colorado, \$15,766.00, Active.

2015 – 2016 **Norton, A. P.** (PI), Eldeiry, A. A. (CoPI), Waskom, R. M. (CoPI), Holtzer, T. O. (CoPI), Katz, G. (CoPI), Contract, "South Platte Phreatophyte Survey", Colorado Water Conservation Board, State of Colorado, \$99,733.00

2015 – 2016 **Norton, A. P.** (PI), Contract, "CAPS: Collection and Redistribution of Biological Control Insects for the Control of Invasive Toadflax Species (*Linaria* spp.)", Colorado Department of Agriculture, State of Colorado, \$15,962.00

2015 – 2016 **Norton, A. P.** (PI), Contract, "Effects of Russian Olive Removal on Soils and Understory Plant Communities in the Boulder Creek Floodplain, Boulder, Colorado", City of Boulder Open Space & Mountain Parks, State of Colorado Local Government, \$7,247.00

2015 – 2016 **Norton, A. P.** (PI), Contract, "Effects of Russian Olive Removal on Soils and Understory Plant Communities in the Boulder Creek Floodplain, Bould...", City of Boulder Open Space & Mountain Parks, State of Colorado Local Government, \$5,000.00

2012 – 2017 **Norton, A.P.** and Ode, P. Development of a database: Biocontrol agents of insect pests released into the United States. USDA-APHIS-CPHST \$265,000 (5 grants).

2013 – 2014. **Norton, A.P.** and Hardin, J. Biocontrol of toadflaxes. \$15,088. USDA-APHIS Western Region.

2011 – 2013. **Norton, A.P.** Re-introduction of *Rhinusa linariae* for yellow toadflax biocontrol. USDA-APHIS Western Region. \$63,630 (2 separate grants).

2011 - 2014. **Norton, A.P.** and Katz, G. Environmental impacts of Russian olive on the south fork of the Republican River. Three Rivers Alliance. \$45,000 (3 separate grants).

Funded Projects as CoPI (last 5 years)

2015 – 2017 Hufbauer, R. A. (PI), **Norton, A. P.** (CoPI), Endriss, S. B. (CoPI), Grant, "Dissertation Research: Exploiting Seasonality and Differences in Herbivory to Create a Novel Framework for Testing Optimal Defense Theory", NSF-National Science Foundation, Federal, \$19,239.00

2014 – 2017. Norton, AP, Jahn, CJ and Holtzer, T. Developing a biological control strategy for Canada thistle. \$110,000 (50% Norton, 50% Jahn).

2013 – 2015. Jamieson, M. **Norton, A.P.**, Bowers, D. Impacts of Herbaceous Bioenergy Production

Systems on Bee Communities: Implications for Pollinator Declines and Pollinator Conservation. USDA-AFRI Regional Biofuels Program. \$500,000 (25%, \$88,439 to my lab).

2010 – 2013. Nissen, S. **Norton, A.P.** Improving *Tamarix* control following fire using integrated management techniques. \$75,000 (30%, \$15,000).

2010 – 2012. Jamieson, M., **Norton, A.P.** Genetic variation and phenotypic plasticity in performance and defense traits of Dalmatian Toadflax: implications for the spread and management of an important rangeland weed. USDA-AFRI-Weedy and Invasive Species. (Postdoctoral award to M. Jamieson). \$124,962. (10%, \$124,962).

Research or Extension Presentations, Last 5 years: 51

Classroom Teaching

<u>Years</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>	<u>Team Taught?</u>	<u>GTA?</u>
2009 - 2017	Sp	AGRI / IE116 - Plants and Civilizations (GT-SS3)	3	223 - 295	no	no
2009 - 2017	Sp	AGR/IE I116 - Plants and Civilizations Recitation (12 sections of ca. 25 students)	0	223 - 295	no	4
2009 - 2010	F	AGRI / IE116 - Plants and Civilizations (GT-SS3)	0	223 - 295	yes	no
2016, 2017	F	BSPM500 - Foundations of Bioagricultural Sciences	2	8 - 15	yes	no
2011	F	ECOL592 - Interdisciplinary Seminar in Ecology (Plant-Insect interactions)	3	12	no	no
2002 - 2008	F	BSPM302 - Applied and General Entomology	2	106 - 148	no	no

Guest Lectures

AGRI/IE 116 - Plants and Civilizations, BSPM 308 / Ecology and Management of Weeds, BSPM 451 / 551 / Integrated Pest Management, BSPM 510 / Insect Plant/Disease Relationships, BSPM 500 - BSPM Foundations, HORT462 – Viticulture, RS 400 / Rangeland Improvements

*Many of these are now regular parts of the offered class.

Non-Classroom teaching

<u>Years</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>	<u>Team Taught?</u>	<u>GTA?</u>
Var.*	Var.	BSPM487 – Internship	Var.	Var.	no	no
Var.	Var.	BSPM495 – Independent Study	Var.	Var.	no	no
Var.	Var.	BSPM584 – Supervised	Var.	Var.	no	no

		College Teaching			
Var.	Var.	BSPM584 – Supervised College Teaching	Var.	Var.	no no
Var.	Var.	BSPM596 – Group Study	Var.	Var.	no no
Var.	Var.	BSPM698 – Research	Var.	Var.	no no
Var.	Var.	BSPM699 – Thesis	Var.	Var.	no no
Var.	Var.	BSPM784 – Supervised College Teaching	Var.	Var.	no no
Var.	Var.	BSPM798 – Research	Var.	Var.	no no
Var.	Var.	BSPM799 – Dissertation	Var.	Var.	no no
Var.	Var.	ECOL698 – Research	Var.	Var.	no no
Var.	Var.	ECOL799 – Dissertation	Var.	Var.	no no
2015	Sp	Faculty advisor for CSU study abroad at Lincoln University (NZ)	Var.	32	no no

*** In any one semester I will have advising responsibilities for my graduate students (typically 3 – 4 at any one time) for research, thesis and dissertation credits and 4 students for supervised college teaching each spring. Although I usually have 1 – 2 undergraduates that work out of my lab during the school year, only occasionally I will these students elect to enroll in Independent Study or Internship credits.**

Student Course Survey Results

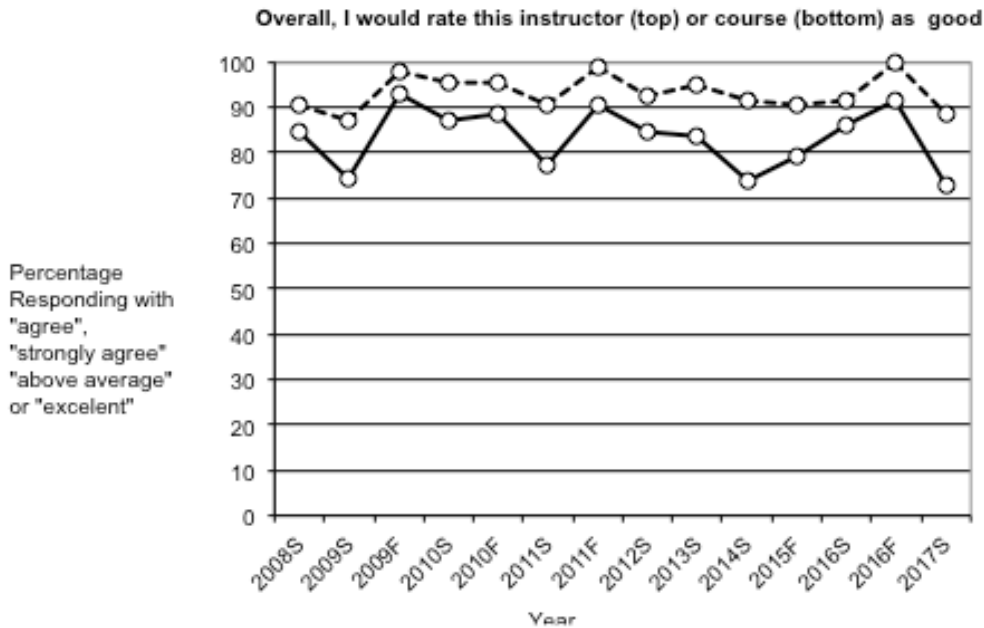


Figure1: Course and Instructor approval ratings for AGRI / IE 116.

Teaching Awards and Nominations

2017. Nomination for the Board of Governor's Excellence in Undergraduate Instruction

2017. Nomination for the Association of Public and Land-grant Universities and the American Association of State Colleges and Universities Food and Agricultural Sciences Excellence in College and University Teaching.

2017. Nomination for the USDA-NIFA National Awards Program for Excellence in College & University Teaching in the Food & Agricultural Sciences

2011. College of Agricultural Sciences Charles N. Shepardson Meritorious Teaching Award.

2011. North American Colleges and Teachers of Agriculture Teaching Award of Merit.

Presentations on Teaching and Learning

2016. What I learned at NCORE: College of Agricultural Science participants at the National Conference for Race and Ethnicity in Higher Education (presented by Arathi Seshadri, Tim Jedra, **Andrew Norton**, Shannon Archibeque-Engle, Mike Martin, CSU CAS)

2013. Bullington, J. Cranston, C., Sagás, J. Camper M., **Norton A.** and Mackie, A. Information literacy = critical thinking: How to integrate your librarian into your course. 2013 TILT Summer Conference on Learning, Teaching and Critical Thinking. May 23, 2013.

2013. Suchman, E. Palmquist, M. **Norton, AP.** and Goodridge, L. Round table presentation: Managing the pressures and priorities of graduate school. 2013 Graduate School Professional Series Mini-Conference: "Striking a Balance and Leaping into Your Future" April 27, 2013.

2011. **Norton, AP.** Integrating critical thinking into a large enrollment course: Plants and Civilizations. February 11, 2011. College of Agriculture Master Teacher Presentation. Colorado State University, Fort Collins, CO. February 11th, 2011.

2008. **Norton, AP.** The Plants and Civilizations re-design process. College of Agriculture Master Teacher Presentation. Colorado State University, Fort Collins, CO. November 14th, 2008.

2008. **Norton, A.P.** Panelist and presenter: Using writing to foster critical thinking. TILT Summer Conference on Learning and Teaching: Integrating Critical Thinking into Your Courses. May 21st, 2008, Colorado State University, Fort Collins, CO. Invited Presentation.

Current and past activities related to the development and improvement of teaching abilities.

(September 2017). CSU Diversity Conference attendee.

January – June 2017: CSU Faculty Institute for Inclusive Excellence student.

(June 2016). Conference Attendance, National Conference on Race and Ethnicity in Higher

Education in America, San Francisco, CO, United States. Approximate Number of Hours Spent Per Year: 40.

(January 11, 2016). Continuing Education Program, "Simple Steps to Measure the Effectiveness of Teaching Innovation," CSU PDI, Fort Collins, CO, United States.

(January 11, 2016). Continuing Education Program, "Teaching effectiveness: tips on pursuing excellence in teaching and learning," CSU PDI, Fort Collins, CO, United States. Approximate Number of Hours Spent Per Year: 2.

May 2016. Conference Attendance. TILT Summer Conference on Learning, Teaching and Critical Thinking

(January 11, 2016). Continuing Education Program, "Simple Steps to Measure the Effectiveness of Teaching Innovation," CSU PDI, Fort Collins, CO, United States.

(January 11, 2016). Continuing Education Program, "Teaching effectiveness: tips on pursuing excellence in teaching and learning," CSU PDI, Fort Collins, CO, United States.

2014. Participant, Global Learning: Interactive Course and Curriculum Design. 9/29/2014. Colorado State University Office of International Programs

2013. TILT Course Development grant (co-PI with Matt Camper).

2013. Participant 2013 TILT Summer Conference on Learning, Teaching and Critical Thinking. May 23, 2013.

2008. Attendee: 29th Annual Professional Development Institute, CSU.

2008-2010. Grant (\$16,300) from the Provost's Course Redesign Competition to Norton, AP, Doe, S. and Goodrich, E. The grant allowed us to create the Plants and Civilizations lecture and recitation curricula.

College of Agricultural Sciences Master Teacher Initiative Coordinator, Fall 2015 – Present

Teaching Tips emailed to date: 69

Master Teacher Initiative Seminars Coordinated:

- Developing and implementing a First-Year Graduate Student Experience Course at CSU – Courtney Jahn, BSPM
- Engaging students in large enrollment courses (presented by Ruth Hufbauer, BSPM)
- Evaluating teaching effectiveness (presented by Erica Suchman and Meena Balgopal, TILT Task force on Evaluating Teaching Effectiveness)
- Nurturing student research skills: Reflections of a growing library partnership (presented by Neyda Gilman and Jimena Sagas, CSU Libraries)

- Why Do Students Cheat and What Can We Do About It? (Presented by Elaine Green)
- What I learned at NCORE: College of Agricultural Science participants at the National Conference for Race and Ethnicity in Higher Education (presented by Arathi Seshadri, Tim Jedra, Andrew Norton, Shannon Archibeque-Engle, Mike Martin, CSU CAS)
- Supporting First Generation and Historically Underrepresented Students (presented by Lucia Delgado, The Access Center, CSU)

University Service

2015 – present	BSPM Executive Committee
2016- 2017	College of Agriculture GTA Tuition Task Force
2015 – 2016	BSPM Strategic Visioning Committee
2015 – 2017:	BSPM Education Committee (Chair, Spring 2006-2009, 2010 – 2015, 2015 - 2017).
2010 – 2014	“ “
2005 – 2010	“ “
2016	College of Agriculture Masters Degree Program Task Force
2014	BSPM Graduate Curriculum Review Committee
2011 – 2013	Executive Committee, Department of Bioagricultural Sciences and Pest Management.
2010 – 2013	Faculty Council member at large.
2009 – present	The Institute for Learning and Teaching, “Let’s Talk Teaching” program. Board Member and Teaching Mentor.
2009	Selection Committee, College of Agriculture Instructional Technology Coordinator.
2009	Selection Committee, University Distinguished Teaching Scholars.
2008	Provost’s Course Redesign Competition - Review Committee.
2008 – 2009	College of Agricultural Sciences, Website Design Committee.
2008 – 2009	University Classroom Review Board (ex-officio).
2008 – 2009	Faculty Council (ex-officio).
2007 – 2009	Life Sciences Core Curriculum, Curriculum Committee.
2007 – 2008	Institute for Learning and Teaching, Academic Integrity Task Force.
2005 – 2010	Faculty Council Committee on Teaching and Learning (Chair, Fall 2008 – Spring, 2009).
2005 – 2010	College of Agricultural Sciences Strategic Planning Steering Committee, Pest Ecology and Management.
2005 – 2007	Graduate Degree Program in Ecology, Executive Committee.
2005 – 2006	Search Committee, Animal Behavior, Department of Biology.
2002 – present	Invasive Species Research Site (Chair).

Professional Service

- 2010 – 2012. **Entomology Society of America Annual Meeting Program Committee** (co-chair, 2011).
2011. **Chair and meeting coordinator, W2185 Biological Control in Pest Management**

Systems of Plants.

2008 – 2009: **2nd Tamarisk and Russian olive Research Conference, Program Committee Chair.**

2005 - 2006: **Lead organizer and committee chair, Tamarisk Research Conference.**

Memberships in Professional Societies:

Ecological Society of America; Entomological Society of America; W-1185, Western Regional Biological Control Working Group.

Grant Review Panels:

2014 USDA-NIFA Entomology and Nematology Panelist.

2013 USDA-NIFA Entomology and Nematology Panelist.

2006. USDA-NRICGP Entomology and Nematology Panelist.

2005. USDA-NRICGP Entomology and Nematology Panelist.

Grant Refereeing:

USDA-NRICGP Entomology and Nematology, 2001, 2002, 2003, 2004.

Manuscript Refereeing:

1995 - present: Agricultural Entomology, Annals of the Entomological Society of America, Biological Control, Ecological Applications, Ecological Monographs, Ecology, Entomologia Experimentalis et Applicata, Journal of Economic Entomology, Journal of Environmental Entomology, Oecologia, Weed Science, Western North American Naturalist

Professional Development activities not listed above

2013. FastTrack 3-day Leadership Intensive. Chapel Hill, NC. October 19 – 21.

STUDENT ADVISING/GRADUATE SUPERVISION

GRADUATE STUDENTS:

Current Graduate Advisees

Stacy Endriss (PhD)

Amy Clark (MS, plan A, co-advisor)

Alison Hogeboom (MS, plan A, co-advisor)

Sara Thompson (MS plan A)

Completed Graduate Students

Graham Tuttle (PhD 2017)

Wyatt Williams (PhD, 2012)

Dan Cariveau (PhD, 2008)

Casandra Lloyd (MS, 2003) Plan A

POSTDOCTORAL STUDENTS/RESEARCH ASSOCIATES/OTHER ASSOCIATES:

2010 – 2012 **Mary Jamieson**, Postdoctoral Researcher (PhD).

2010 – 2011 **Maria Vidal Alves**, Postdoctoral Researcher (PhD).

2005 – present **Janet Hardin**, Research Associate (BS).

Honors Students Advised: 1. Alicia Thuis completed her honors thesis spring 2010.

Advising of Student Groups: 2009 – 2014 Leaders in Free Thought, Faculty Advisor.